



Tulsiramji Gaikwad-Patil College of Engineering and Technology

Wardha Road, Nagpur - 441108

Accredited with NAACA+Grade

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to RTM Nagpur University, Nagpur)



Department of Electronics and Communication Engineering

M.Tech_II Sem

Electronics Engineering (Communication)

Course Name: MEC21205 Satellite Communication (PE-II)

CourseCode	Course Outcomes	PO/PSO	CL	Class Sessions
MEC21205.1	Describe the knowledge of earth station components, Orbital Mechanics and Parameters, and components involved in frequency conversion including transponder hopping	PO1, PO2, PO3	3	9
MEC21205.2	Explain the transponder channelization methods and satellite link budget analysis, considering factors such as gain, losses, and signal strength.	PO1, PO2, PO, PO12	4	9
MEC21205.3	Analyse the concept of TDMA frame acquisition, synchronization, and satellite position determination for seamless communication	PO1, PO2, PO, PO12	4	9
MEC21205.4	Evaluate the challenges of synchronization in FH and DS systems and propose methods for achieving efficient synchronization.	PO1, PO2, PO3	5	9
MEC21205.5	Evaluate the importance of network error control and polling mechanisms in ensuring reliable data transmission in VSAT networks.	PO1, PO2, PO3	5	9

HoD(ECE)